VTrak Ex30 Compatibility List

Supports Initial Product Release v1.0
Date: 12/17/2010

VTrak Systems Covered:

- **VTrak E330f** – 2U/12-bay 8Gb Fibre to 6Gbs SAS/SATA RAID System
- **VTrak E630f** – 3U/16-bay 8Gb Fibre to 6Gbs SAS/SATA RAID System
- **VTrak E830f** – 4U/24-bay 8Gb Fibre to 6Gbs SAS/SATA RAID System
- **VTrak J330s** – 2U/12-bay 6Gbs SAS to 6Gbs SAS/SATA Expansion JBOD System
- **VTrak J630s** – 3U/16-bay 6Gbs SAS to 6Gbs SAS/SATA Expansion JBOD System
- **VTrak J830s** – 4U/24-bay 6Gbs SAS to 6Gbs SAS/SATA Expansion JBOD System

System Versions Covered:

- **VTrak Ex30 BootLoader** – Version 0.19.0000.28 [December 9, 2010]
- **VTrak Ex30 Firmware** – Version 4.01.0000.00 [December 9, 2010]
- **VTrak Ex30 Software** – Version 4.01.0000.00 [December 9, 2010]
- **6Gbs VTrak Jx30s Firmware** – Version 6.11.0000.40 [December 9, 2010]
- **Windows PerfectPath MPIO DSM** – Version 4.00.0000.00 [WHQL Certified]

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Document History

Date	Editor	Deviation
12/17/2010	M. Mickelson	1. Initial Ex30 compatibility release for ***VTrak Ex30 release.***

DEVICE COMPATIBILITY NOTE:

Basic compatibility between the 3rd party device and Promise device has been verified in typical configurations, unless otherwise stated.

DISCLAIMERS:

Only the versions available at time of testing have been verified, as listed.
Corner cases may exist depending on user configuration etc.
Individual 3rd party units may exhibit problems that did not show up in through the Promise test process.
Published performance is not assured with configuration deviations.

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Operating Systems

Supported Operating Environments			
Vendor	**Core Platform**	**Type**	**Notes**
Microsoft	Windows Server 2008 w/SP2	x86/x64	ALUA support with PerfectPath v4.00 or later
	Windows Server 2008 Hyper-V w/SP2	x64	ALUA support with PerfectPath v4.00 or later
	Windows Server 2008 R2	x64	ALUA support with PerfectPath v4.00 or later
Oracle	Enterprise Linux 5.3	x64	No LUN Affinity/ALUA support
	Enterprise Linux 5.5	x64	LUN Affinity/ALUA natively supported
RedHat	Enterprise Linux 5.3	x86/x64	No LUN Affinity/ALUA support
	Enterprise Linux 5.4	x86/x64	LUN Affinity/ALUA natively supported
	Enterprise Linux 5.5	x86/x64	LUN Affinity/ALUA natively supported
SuSE	Linux Enterprise Server 10.2	x86/x64	LUN Affinity/ALUA natively supported
	Linux Enterprise Server 10.3	x86/x64	LUN Affinity/ALUA natively supported
	Linux Enterprise Server 11	x64	LUN Affinity/ALUA natively supported
VMware	ESX Server v4.0 Update 2	x64	LUN Affinity/ALUA natively supported
	ESX Server v4.1	x64	LUN Affinity/ALUA natively supported

Note: VMware has been qualified by Promise and then certified by VMware.

Fibre Channel Host Bus Adapters

Fibre Channel HBAs							
Vendor	**Model**	**BIOS**	**Firmware**	**Fcode**	**Windows**	**Linux**	**VMware Tested†**
Brocade	FC815	v2.3.0.0	v2.3.0.0		v2.3.0.0	v2.3.0.0	Supported
	FC825	v2.3.0.0	v2.3.0.0		v2.3.0.0	v2.3.0.0	Certified
Emulex	LightPulse LPe12000	2.12a6	2.00a3	3.10a3	2.40.005	8.2.0.86	Supported
	LightPulse LPe12002	2.12a6	2.00a3	3.10a3	2.40.005	8.2.0.86	Certified
	LightPulse LPe12004	2.12a6	2.00a3	3.10a3	2.40.005	8.2.0.86	Supported
	LightPulse LPe1250	2.12a6	2.00a3	3.10a3	2.40.005	8.2.0.86	Supported
	LightPulse LPe11000	2.12a6	2.82a4	3.10a3	2.40.005	8.2.0.86	Supported
	LightPulse LPe11002	2.12a6	2.82a4	3.10a3	2.40.005	8.2.0.86	Certified
	LightPulse LPe11004	2.12a6	2.82a4	3.10a3	2.40.005	8.2.0.86	Supported
	LightPulse LPe1150	2.12a6	2.82a4	3.10a3	2.40.005	8.2.0.86	Supported
	LightPulse LPe111	2.12a6	2.82a4	3.10a3	2.40.005	8.2.0.86	Supported
Qlogic	SANblade QLE2560	2.10	4.06.02	2.04	9.1.8.25	8.02.23-3	Supported
	SANblade QLE2562	2.10	4.06.02	2.04	9.1.8.25	8.02.23-3	Supported
	SANblade QLE2564	2.10	4.06.02	2.04	9.1.8.25	8.02.23-3	Certified
	SANblade QLE2460	2.10	4.06.02	2.04	9.1.8.25	8.02.23-3	Supported
	SANblade QLE2462	2.10	4.06.02	2.04	9.1.8.25	8.02.23-3	Supported
	SANblade QLE2464	2.10	4.06.02	2.04	9.1.8.25	8.02.23-3	Certified

† 'VMware Tested' column indicates the level of support for VMware ESX 4.0 Update 2 and ESX 4.1. 'Certified' indicates the controller was fully qualified by Promise and was used in the VMware certification test process using the Workbench test suite. 'Supported' implies the controller should work at the same level as the certified model as it is based on the same driver level and some spot testing has been performed.

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Fibre Channel Switches and SFPs

Fibre Channel Switches			
Vendor	**Model**	**Ports**	**Firmware**
Brocade	SilkWorm 200E	16x4Gb	v5.1.0
	Brocade 300	24x8Gb	v7.0.1
	Brocade 5100	40x8Gb	v7.0.1
	Brocade 5000	32x4Gb	v6.1.1
	Brocade 8000	24x10Gb FCoE/iSCSI 8x8Gb FC	v6.0.4c
Cisco	MDS 9020	20x4Gb	v1.7.8.0
	MDS 9148	48x8Gb	v5.0.[1a]
	NEXUS 5010	20x10Gb FCoE/iSCSI 6x8Gb FC	v4.1(3)N2(1)
IBM	TotalStorage SAN16B-2	16x4Gb	v6.0.0c
	TotalStorage SAN16M-2	16x4Gb	v09.07
McDATA	Sphereon 4400	16x4Gb	v09.06.01
Qlogic	SANbox 5600Q	16x4Gb	v7.4.0.16
	SANbox 9000 - 4Gb blade	32-128x4Gb	v7.8.0.08
	SANbox 9000 - 8Gb blade	32-128x8Gb	v7.8.0.08
	SANbox 1400	10x4Gb	v5.0.1.10
	SANbox 5802V	20x8Gb	v7.4.0.16

SFP Interoperability Matrix (Shortwave)		
Vendor	**Model**	**Description**
Apple	4Gb SFP to SFP	2.9M 4Gb SFP Copper Cable (Qlogic 4Gb and 8Gb only)
Avago	AFBR-57D7APZ	Digital Diagnostic SFP, 850 nm, 8.5/4.25/2.125 GBd Low Voltage (3.3 V) - 85°C
Brocade	57-1000012-01	Brocade 8Gb Shortwave SFP
Cisco	DS-SFP-FC8G-SW	Cisco 8Gb Shortwave SFP
Finisar	FTLF8528P2BCV	Digital Diagnostic SFP, 850 nm, 8.5/4.25/2.125 GBd Low Voltage (3.3 V) - 70°C
Finisar	FTLF8528P2BNV	Digital Diagnostic SFP, 850 nm, 8.5/4.25/2.125 GBd Low Voltage (3.3 V) - 85°C

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Hard Disk Drives

Promise P/N	Description	1MB Sequential		4KB Random		Ave. Response
		READ	WRITE	READ	WRITE	64KB READ
F40E83F03010000 (1-pack) F40E83F04010000 (4-pack)	2TB 7,200RPM Nearline 6Gbs SAS	140MB/sec	140MB/sec	160 IOPs	160 IOPs	~14ms
F40E83F05010000 (1-pack) F40E83F06010000 (4-pack)	600GB 15,000RPM Online 6Gbs SAS	195MB/sec	190MB/sec	380 IOPs	360 IOPs	~10ms
F29000020000199 (1-pack) F29000020000200 (4-pack)	64GB SLC SSD with 6Gbs SAS-to-SATA Bridge	200MB/sec	160MB/sec	24,000 IOPs	6,000 IOPs	~10ms

UPS Appliances

UPS Support[‡]	HW Rev.	APC OS	APP. Module SW
APC Smart-UPS 1500VA - North America	667.18.D	v3.6.1	v3.5.8
APC Smart-UPS 2200VA - North America	667.18.D	v3.6.1	v3.5.8
APC Smart-UPS 3000VA - North America	667.18.D	v3.6.1	v3.5.8

USB Flash Drives (OPAS Service Port)

Vendor[§]	Family	MFG Part Number	Capacity
ADATA	Classic C801	AC801-8G-RBK	8GB
Centon	DataStick Swivel	DSV2GB-001	2GB
Kingston Technology	DataTraveler 100 (G2)	DT100G2/8GBZ	8GB
Patriot Memory	Xporter	PSF8GUSB	8GB
PNY	Label Attaché	P-FD4GB/xxxBTS-EF	4GB
Verbatim	Verbatim USB Drive	97087	4GB

[‡] The above UPS models were fully validated for use with a properly configured VTrak Ex30 system. For other regions that use different power sources, such as Japan, using the APC Smart-UPS equivalent will be supported.

[§] There is a large variety of USB Flash Drive vendors to select from on the market. The Promise qualification team selected only a handful to represent only a sampling of available Flash Drives. The above list shows the drives that have passed a rigorous read/write/discovery test process are deemed worthy of use out-of-the-box. There were other USB Flash drives that did not function properly out-of-the-box, and required a partition and format in order to use them.

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Promise Validated Applications

Validated Applications			
Vendor	**Product**	**Version**	**Description**
Backbone	Netvault	v8.2.2	Backup software
CA	Brightstor	r11.1	Backup software
EMC	Retrospect	v7.0	Backup software
Falconstor	IPstor VTL	v6.15	Virtual Tape Library
Microsoft	Exchange Server 2010	v14.00.0639.019	Mail Server
	Microsoft Cluster Service	2008 Server	Fail-over Cluster Service
	Microsoft Cluster Service	2008 Server R2	Fail-over Cluster Service
Novell	Heartbeat v2	SLES 10.3 and 11	Fail-over Cluster Service
Oracle	Lustre Filesystem	v1.8.5	Clustered Filesystem
Quantum	Stornext Filesystem	v4.0.1.1	Distributed Filesystem (over FC) Storage Consolidation Heterogeneous Windows/Linux/Mac environments Distributed LAN Clients (over Ethernet)
	Stornext Storage Manager	v4.0.1.1	Storage Tiering Archiving Data Deduplication Replication
RedHat	Global Filesystem	GFS2	Clustered Filesystem
	RH Cluster	RHEL 5.4 and 5.5	Fail-over Cluster Service
Symantec	Netbackup	v5.0	Backup software
	BackupExec	v2010 R2	Backup software
	Storage Foundation for Windows	v5.1 SP2	VERITAS Volume Management VERITAS Cluster Service (VCS)
	Storage Foundation for Linux	v5.1	VERITAS Volume Management VERITAS Cluster Service (VCS)

Promise Validated Browsers for WebPAM PROe

Validated Web Browsers for Ex30 WebPAM PROe	
Product	**Version**
Internet Explorer	8.0.7600.16385
Safari for Mac	4.0.5 (6531.22.7)
Safari for Windows	5.0.2 (7533.18.5)
Mozilla Firefox for Windows	3.6.13
Mozilla Firefox for RHEL	3.0.18
Mozilla Firefox for SLES 11.1	3.5.9

Note: The above list should be considered the minimum version requirements for browser compatibility when using the WebPAM PROe management interface.

♠ End of Report ♠

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